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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.
09/876,661	06/07/2001	Thomas M. Marshall	US 010287	9584

7590 04/09/2003

Corporate Patent Counsel
U.S. Philips Corporation
580 White Plains Road
Tarrytown, NY 10591

EXAMINER

ARTMAN, THOMAS R

ART UNIT

PAPER NUMBER

2882

DATE MAILED: 04/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/876,661	MARSHALL ET AL.
	Examiner Thomas R Artman	Art Unit 2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 March 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-10 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1-7 is/are allowed.

6) Claim(s) 8 and 10 is/are rejected.

7) Claim(s) 9 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) Other: _____

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 13 January, 2003, fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

The information disclosure statement filed 13 January, 2003, fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because a PTO-1449 or acceptable substitute has not been filed. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Miller (US 6,373,568).

Regarding claim 8, Miller discloses the claimed structure in his spectral imaging system (Fig.4a), including:

- 1) an array of LEDs comprising at least one LED in each of a plurality of colors (item 1, detailed in Fig.1, items 10a-j),
- 2) a condenser lens (Fig.1, item 13) positioned to direct the combined light output of the array of LEDs to a target light guide (item 14a), and
- 3) an array of light sensors (digital camera, item 61 of Fig.4a), where each sensor is associated with a group of LEDs, and each are positioned to intercept and measure at least a portion of the light output of its associated LEDs.

With respect to claim 10, Miller's illumination portion includes:

1) means for supplying electrical current to the LED array (Fig.4a, item 40, details in Fig.3), whereby said LEDs in each said color have a light output, and the array has a combined light output.

2) means for comparing the measured light output for each color to a respective desired light output for each color (Fig.3), and

3) means for adjusting the electrical current (Fig.3) to the LEDs in each color based on said comparison, whereby a desired combined light output may be achieved.

Allowable Subject Matter

Claims 1-7 and 9 are allowed.

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-7, the reasons were stated in the previous Office action, dated January 9th, 2003, of Paper No.8.

Regarding claim 9, the prior art fails to disclose or reasonably teach the additional limitation of: a sensor detecting the output of a specified group of three LEDs in an LED array.

Response to Arguments

The examiner wishes to direct the applicant to the claimed subject matter of claim 8 and the prior art reference Miller. The disputed claim subject matter states:

“an array of light sensors” – Miller’s CCD array is an array of light sensors,
“each light sensor associated with an LED or group of LEDs” – each pixel in Miller’s CCD array is “associated with” an LED or group of LEDs – they detect the light from each LED array and are therefore “associated with” the LEDs in the array,

“each light sensor positioned to intercept and measure at least a portion of the light output of its associated LED or group of LEDs” – Miller’s CCD array (and each individual pixel, or photodiode, a.k.a., “sensor”) is positioned to measure “at least a portion” of the light output from the associated LED or group of LEDs, since each pixel only intercepts a portion of the total light output from the LED array with which the sensor array is associated.

Regarding claim 10, at least as shown in Fig.3, by way of example, Miller also discloses that the signal from the CCD array, indicative of the combined light output of the LED array, is used by a processor to control the combined light output of the LED array. Further, the only way an LED output is controlled is through the electrical current supplied to the solid-state device.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R Artman whose telephone number is (703) 305-0203. The examiner can normally be reached on 8am - 5:30pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

TRA *TRA*
April 1, 2003

David V. Bruce
DAVID V. BRUCE
PRIMARY EXAMINER